

Refine Search

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5686276.pn.	1

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DATE: Monday, February 27, 2006 [Printable Copy](#) [Create Case](#)

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DB=USPT; PLUR=YES; OP=OR

<u>L5</u>	5686276.pn.	1	<u>L5</u>
<u>L4</u>	laffend.in.	4	<u>L4</u>
<u>L3</u>	L1 and (ATCC deposit)	1	<u>L3</u>
<u>L2</u>	L1 and ATCC deposit	210183	<u>L2</u>
<u>L1</u>	6025184.pn.	1	<u>L1</u>

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1. Document ID: US 6514733 B1

L4: Entry 1 of 4

File: USPT

Feb 4, 2003

US-PAT-NO: 6514733

DOCUMENT-IDENTIFIER: US 6514733 B1

TITLE: Process for the biological production of 1,3-propanediol with high titer

DATE-ISSUED: February 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Emptage; Mark	Wilmington	DE		
Haynie; Sharon L.	Philadelphia	PA		
<u>Laffend</u> ; Lisa A.	Claymont	DE		
Pucci; Jeff P.	Pacifica	CA		
Whited; Gregory	Belmont	CA		

US-CL-CURRENT: [435/158](#); [435/155](#), [435/252.33](#)[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KOMC](#) | [Draw Desc](#) | [Imse](#)

2. Document ID: US 6428767 B1

L4: Entry 2 of 4

File: USPT

Aug 6, 2002

US-PAT-NO: 6428767

DOCUMENT-IDENTIFIER: US 6428767 B1

TITLE: Method for identifying the source of carbon in 1,3-propanediol

DATE-ISSUED: August 6, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Burch; Robert R.	Exton	PA		
Dorsch; Robert R.	Hockessin	DE		
<u>Laffend</u> ; Lisa Anne	Claymont	DE		
Nagarajan; Vasantha	Wilmington	DE		
Nakamura; Charles	Claymont	DE		

US-CL-CURRENT: [424/1.37](#); [250/281](#), [250/282](#), [424/1.11](#), [435/6](#), [435/93](#)[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KOMC](#) | [Draw Desc](#) | [Imse](#)

3. Document ID: US 6025184 A

US-PAT-NO: 6025184

DOCUMENT-IDENTIFIER: US 6025184 A

TITLE: Bioconversion of a fermentable carbon source to 1,3-propanediol by a single microorganism

DATE-ISSUED: February 15, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Laffend</u> ; Lisa Anne	Wilmington	DE		
Nagarajan; Vasantha	Wilmington	DE		
Nakamura; Charles Edwin	Claymont	DE		

US-CL-CURRENT: 435/252.33; 435/252.3, 435/320.1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Abstract](#) | [Claims](#) | [KOMC](#) | [Drawn Desc](#) | [Image](#)

 4. Document ID: US 5686276 A

L4: Entry 4 of 4

File: USPT

Nov 11, 1997

US-PAT-NO: 5686276

DOCUMENT-IDENTIFIER: US 5686276 A

TITLE: Bioconversion of a fermentable carbon source to 1,3-propanediol by a single microorganism

DATE-ISSUED: November 11, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Laffend</u> ; Lisa Anne	Wilmington	DE		
Nagarajan; Vasantha	Wilmington	DE		
Nakamura; Charles Edwin	Claymont	DE		

US-CL-CURRENT: 435/158; 435/252.31, 435/252.33

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Abstract](#) | [Claims](#) | [KOMC](#) | [Drawn Desc](#) | [Image](#)

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Terms

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laffend.in.

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Refine Search

Search Results -

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Database:

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US OCR Full-Text Database

EPO Abstracts Database

JPO Abstracts Database

Derwent World Patents Index

IBM Technical Disclosure Bulletins

Search:

L9

Refine Search

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Interrupt

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DATE: Monday, February 27, 2006 [Printable Copy](#) [Create Case](#)

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Hit Count Set Name
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DB=USPT; PLUR=YES; OP=OR

<u>L9</u>	L8 and l7	1	<u>L9</u>
<u>L8</u>	burch.in.	720	<u>L8</u>
<u>L7</u>	L5 and (dhaB1 and dhaB2 and dhaT)	7	<u>L7</u>
<u>L6</u>	L5 and (dhaB1 and DhaB2 and dhaB3)	7	<u>L6</u>
<u>L5</u>	L4 and (citrobacter)	447	<u>L5</u>
<u>L4</u>	L3 and (Klebsiella)	2869	<u>L4</u>
<u>L3</u>	L2 and (diol dhydratase enzyme)	95465	<u>L3</u>
<u>L2</u>	L1 and (glycerol dehydratase enzyme)	116760	<u>L2</u>
<u>L1</u>	(1,3-propanediol production)	792692	<u>L1</u>

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1. Document ID: US 6953684 B2

L7: Entry 1 of 7

File: USPT

Oct 11, 2005

US-PAT-NO: 6953684

DOCUMENT-IDENTIFIER: US 6953684 B2

TITLE: Method for the recombinant production of 1,3-propanediol

DATE-ISSUED: October 11, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dunn-Coleman; Nigel	Los Gatos	CA		
Diaz-Torres; Maria	San Mateo	CA		
Chase; Matthew W.	Chesterfield	MO		
Trimbur; Donald	Redwood City	CA		

US-CL-CURRENT: 435/252.3; 435/158, 435/252.33, 435/254.2, 530/350, 530/824, 536/23.2,
536/23.7[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Abstract](#) [Detailed Abstract](#) [Claims](#) [KOMC](#) [Drawn Desc](#) [Image](#)

2. Document ID: US 6803218 B1

L7: Entry 2 of 7

File: USPT

Oct 12, 2004

US-PAT-NO: 6803218

DOCUMENT-IDENTIFIER: US 6803218 B1

TITLE: Enzymes which dehydrate glycerol

DATE-ISSUED: October 12, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Seyfried; Markus	Silver Springs	MD		
Wiegel; Juergen	Athens	GA		
Whited; Gregory	Belmont	CA		

US-CL-CURRENT: 435/158[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Abstract](#) [Detailed Abstract](#) [Claims](#) [KOMC](#) [Drawn Desc](#) [Image](#)

3. Document ID: US 6514733 B1

L7: Entry 3 of 7

File: USPT

Feb 4, 2003

US-PAT-NO: 6514733

TITLE: Process for the biological production of 1,3-propanediol with high titer

DATE-ISSUED: February 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Emptage; Mark	Wilmington	DE		
Haynie; Sharon L.	Philadelphia	PA		
Laffend; Lisa A.	Claymont	DE		
Pucci; Jeff P.	Pacifica	CA		
Whited; Gregory	Belmont	CA		

US-CL-CURRENT: 435/158; 435/155, 435/252.33

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Desc	Imag
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 4. Document ID: US 6432686 B1

L7: Entry 4 of 7

File: USPT

Aug 13, 2002

US-PAT-NO: 6432686

DOCUMENT-IDENTIFIER: US 6432686 B1

TITLE: Method for the production of 1,3-propanediol by recombinant organisms comprising genes for vitamin B12 transport

DATE-ISSUED: August 13, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bulthuis; Ben A.	Hoofddorp			NL
Whited; Gregory M.	Belmont	CA		
Trimbur; Donald E.	Redwood City	CA		
Gatenby; Anthony A.	Wilmington	DE		

US-CL-CURRENT: 435/158; 435/252.3, 435/320.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Desc	Imag
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 5. Document ID: US 6428767 B1

L7: Entry 5 of 7

File: USPT

Aug 6, 2002

US-PAT-NO: 6428767

DOCUMENT-IDENTIFIER: US 6428767 B1

TITLE: Method for identifying the source of carbon in 1,3-propanediol

DATE-ISSUED: August 6, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Burch; Robert R.	Exton	PA		
Dorsch; Robert R.	Hockessin	DE		

Laffend; Lisa Anne	Claymont	DE
Nagarajan; Vasantha	Wilmington	DE
Nakamura; Charles	Claymont	DE

US-CL-CURRENT: 424/1.37; 250/281, 250/282, 424/1.11, 435/6, 435/93

Full Title Citation Front Review Classification Date Reference Claims KOME Drawn Desc Images

6. Document ID: US 6136576 A

L7: Entry 6 of 7

File: USPT

Oct 24, 2000

US-PAT-NO: 6136576

DOCUMENT-IDENTIFIER: US 6136576 A

TITLE: Method for the recombinant production of 1,3-propanediol

DATE-ISSUED: October 24, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Diaz-Torres; Maria	San Mateo	CA		.
Dunn-Coleman; Nigel S	Los Gatos	CA		.
Chase; Matthew W.	Belmont	CA		.
Trimbur; Donald	Redwood City	CA		.

US-CL-CURRENT: 435/158; 435/232, 530/350, 536/23.1, 536/23.2, 536/23.7

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	KWIC	Drawn Desc	Image
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7. Document ID: US 6013494 A

L7: Entry 7 of 7

File: USPT

Jan 11, 2000

US-PAT-NO: 6013494

DOCUMENT-IDENTIFIER: US 6013494 A

TITLE: Method for the production of 1,3-propanediol by recombinant microorganisms

DATE-ISSUED: January 11, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nakamura; Charles E.	Claymont	DE		
Gatenby; Anthony A.	Wilmington	DE		
Hsu; Amy Kuang-Hua	Redwood City	CA		
La Reau; Richard D.	Mountain View	CA		
Haynie; Sharon L.	Philadelphia	PA		
Diaz-Torres; Maria	San Mateo	CA		
Trimbur; Donald E.	Redwood City	CA		
Whited; Gregory M.	Belmont	CA		
Nagarajan; Vasantha	Wilmington	DE		
Payne; Mark S.	Wilmington	DE		
Picataggio; Stephen K.	Landenberg	PA		
Nair; Ramesh V.	Wilmington	DE		

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Terms

Documents

L5 and (dhaB1 and dhaB2 and dhaT)

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